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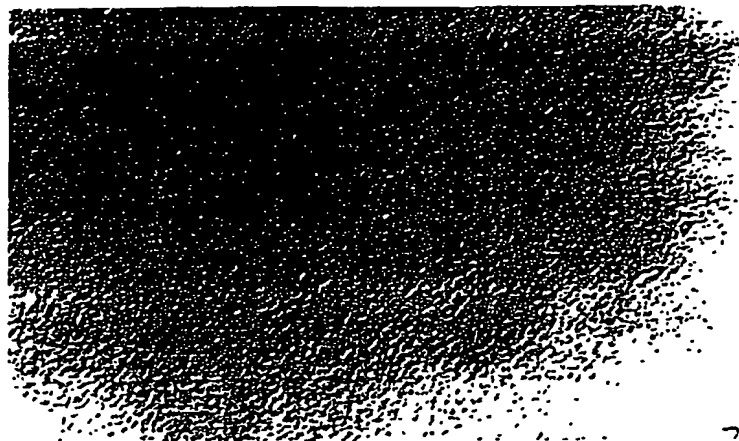


FIG. 1A

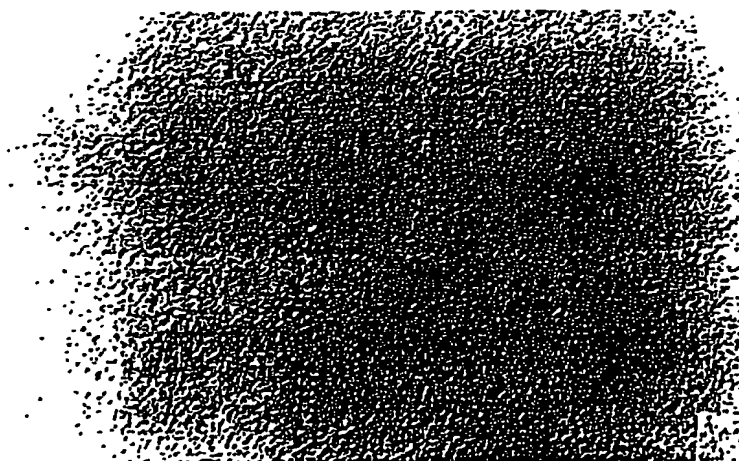


FIG. 1B

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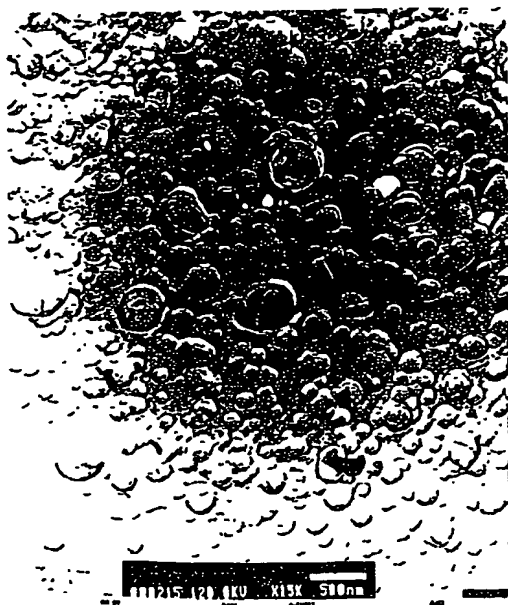


FIG. 2



FIG. 3

Sample #	DNA	DNA Conc. (µg/ml)	Lipid Conc. (mM)	DNA/Lipid (µg/µmole)	% of Retention	Particle Size (nm)
#1	EGFP	39.3	22.0	1.8	27%	170/210/227
#2	EGFP	71.1	35.3	2.0	30%	172/229/255
#3	PGL-3	142.0	53.2	2.7	40%	162/222/250
#4	PGL-3	191.0	79.5	2.4	36%	193/210/218
Theoretical Value		200	30	6.7	100%	

FIG. 4

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FIG. 5

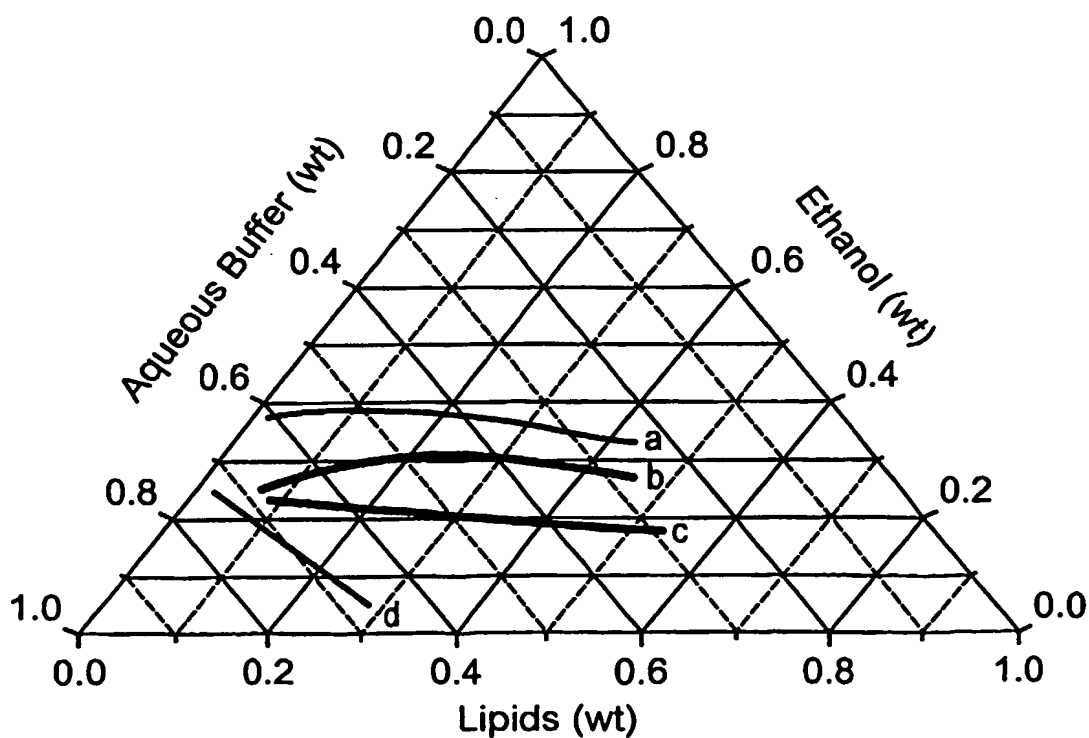
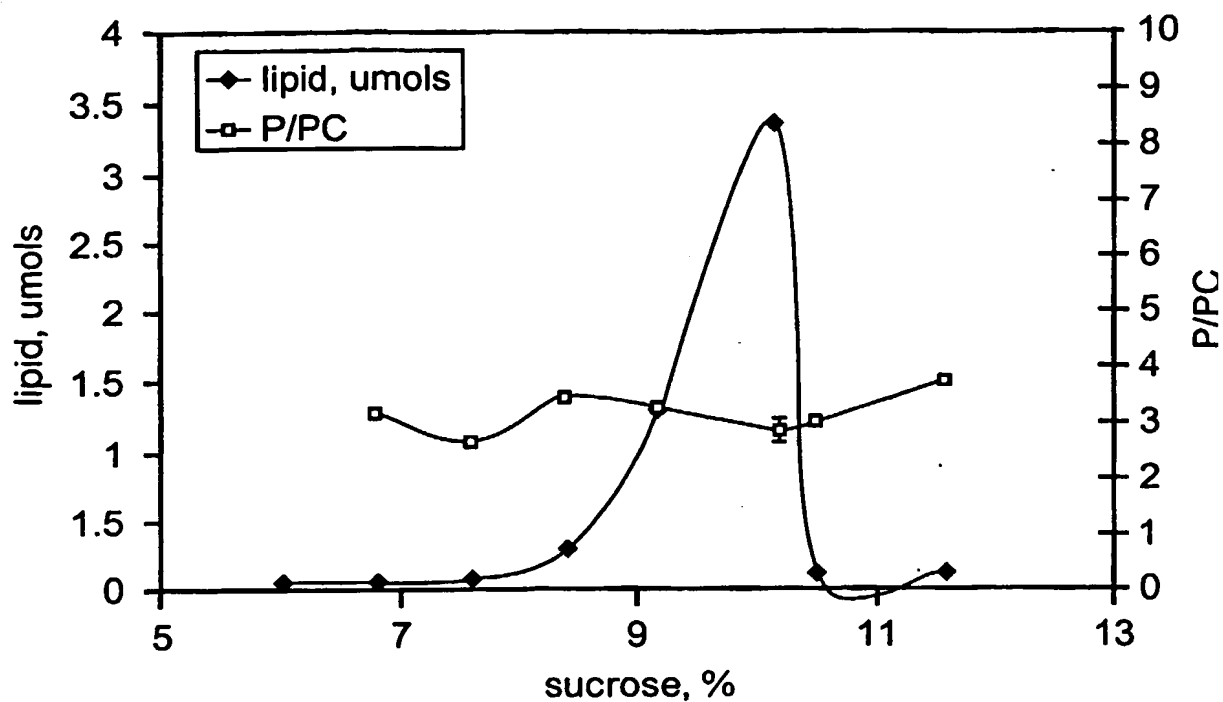


FIG. 6

FIG. 7

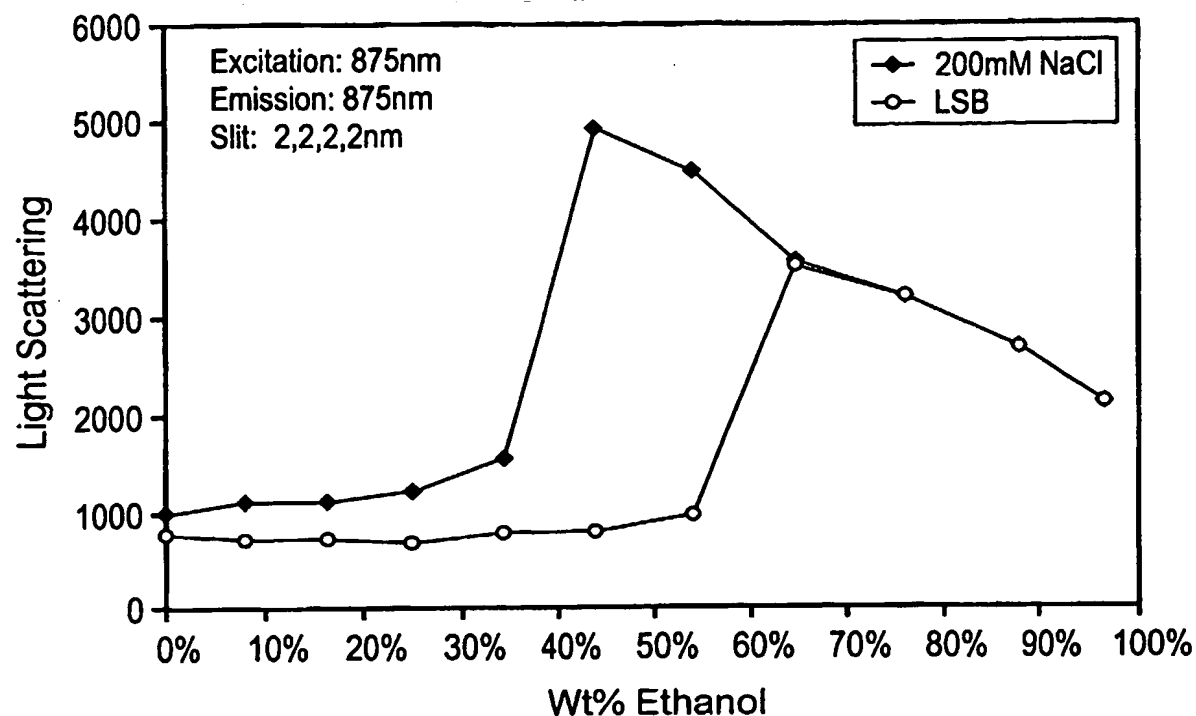
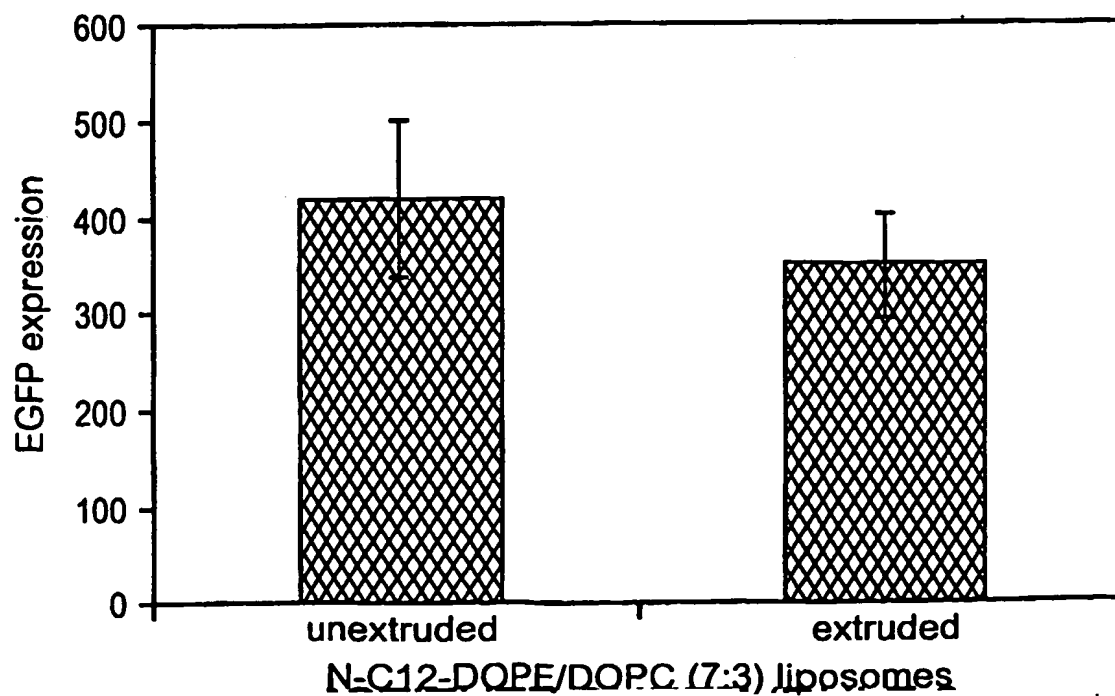


FIG. 8



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FIG. 9

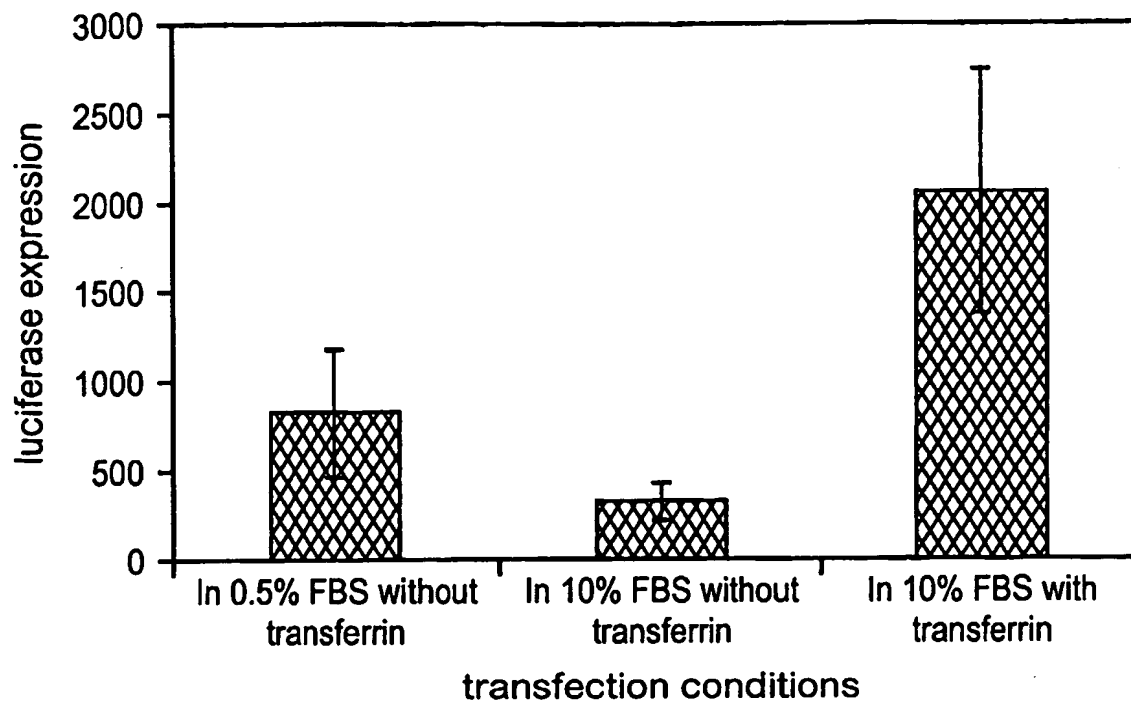
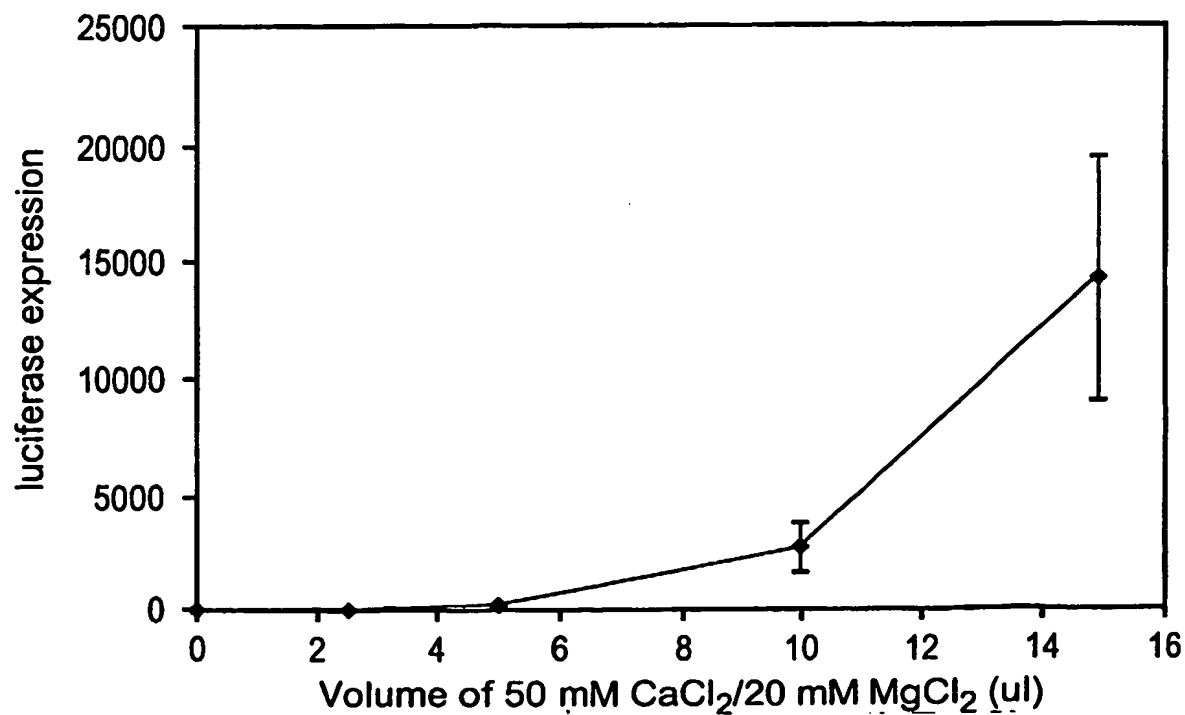


FIG. 10



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FIG. 11

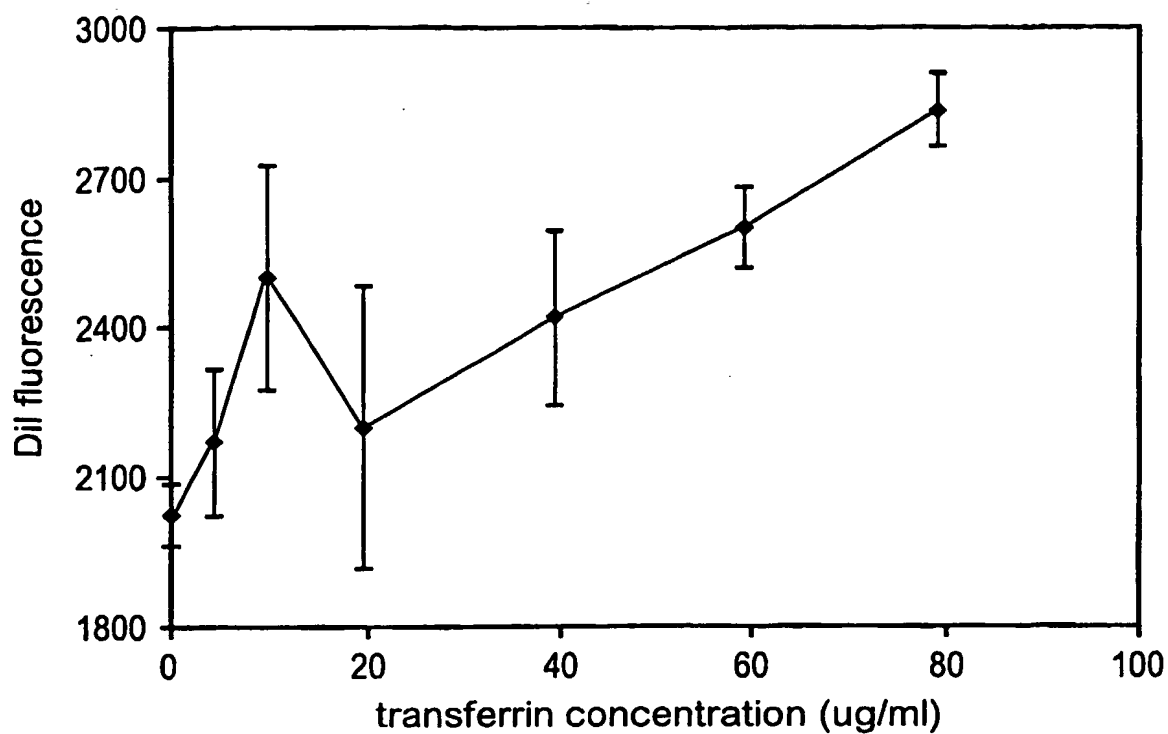
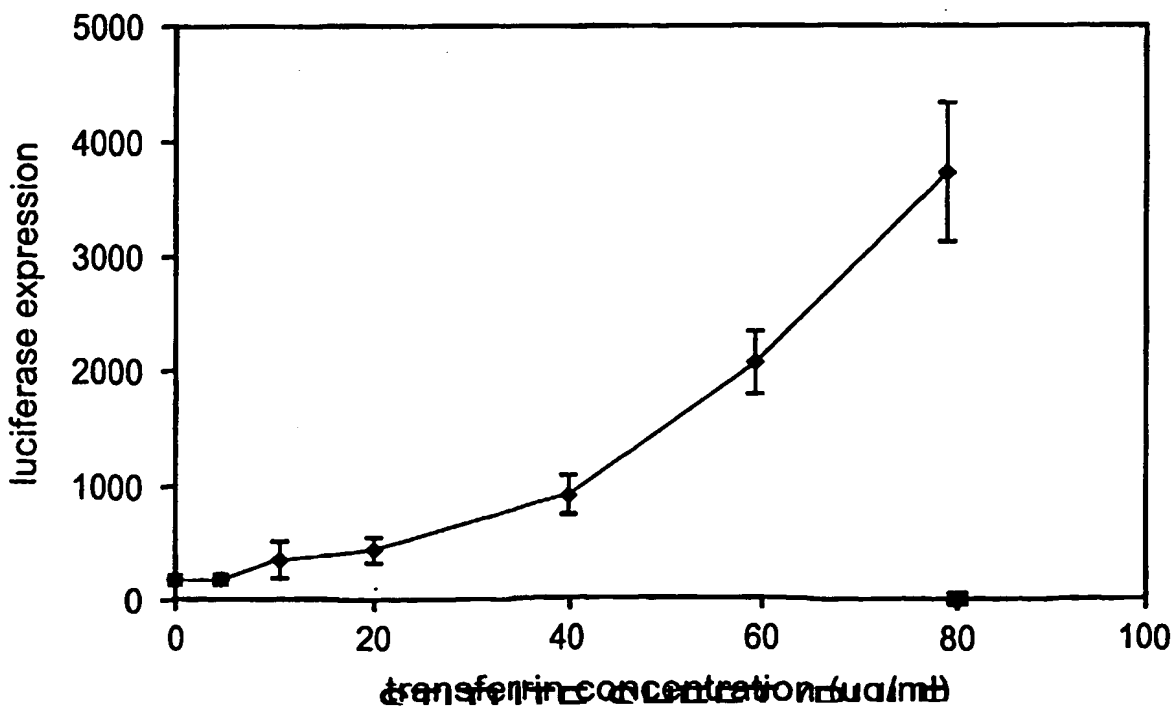
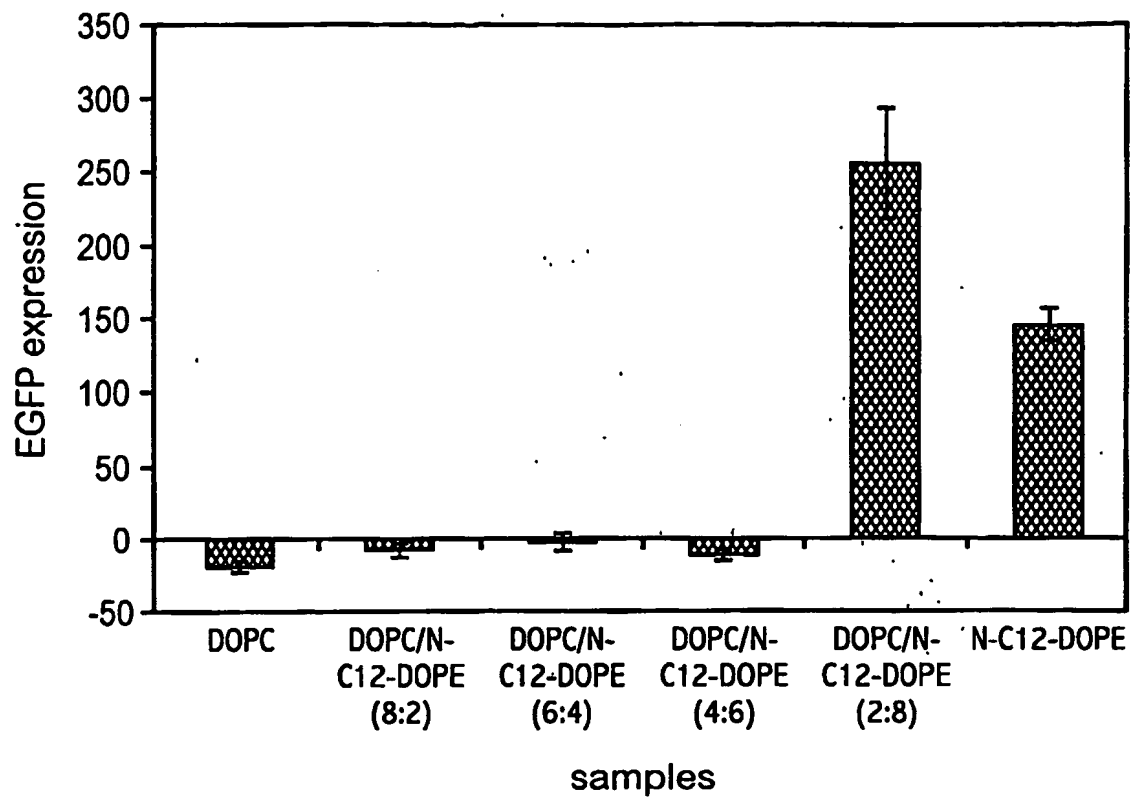


FIG. 12



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FIG. 13





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Sample	Process	Washing	Dextran (MW)	Lipid Conc. (mM)	Dextran Conc. (µg/ml)	Dextran/Lipid Ratio (µg Dextran/mM lipid)	% of Retention
#SA	SPLV	no	TM-RMD (70,000)	26.1	320	12	100%
#SA		yes		16.0	60	3.8	31%
#SB		no	TM-RMD (2,000,000)	26.5	308	12	100%
#SB		yes		15.8	56	3.5	30%
#SC		no	Fluorescein (70,000)	19.5	292	15	100%
#SC		yes		10.9	56	5.2	35%
#GA	Gel Hydration	no	TM-RMD (70,000)	27.2	339	12	100%
#GA		yes		28.7	322	11.2	90%
#GB		no	TM-RMD (2,000,000)	26.3	282	11	100%
#GB		yes		28.2	255	9.0	84%
#GC		no	Fluorescein (70,000)	26.3	332	13	100%
#GC		yes		29.0	221	7.6	60%

FIG. 14

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FIG. 15

Sample Compositions	Captured Volume ( $\mu\text{l/mol}$ )	Entrapped Material	Sizes (nm)	Lamellarity*
POPC	1.2	sulforhodamine 101	800	
POPC-POPG 9:1	7.1	sulforhodamine 101	550	
POPC-POPG 95:5	2.6	sulforhodamine 101	600	30%
DSPC-DSPG-cholesterol 3:2:1	1.0	sulforhodamine 101		40%
DSPC-cholesterol 6:4	1.2	sulforhodamine 101		
DSPC-DSPG-cholesterol 5:1:4	1.1	sulforhodamine 101		
DSPC-DSPG-cholesterol 4:2:4	3.1	sulforhodamine 101	440	44%

Lamellarity was expressed as % of lipid on the outer surface of the liposomes

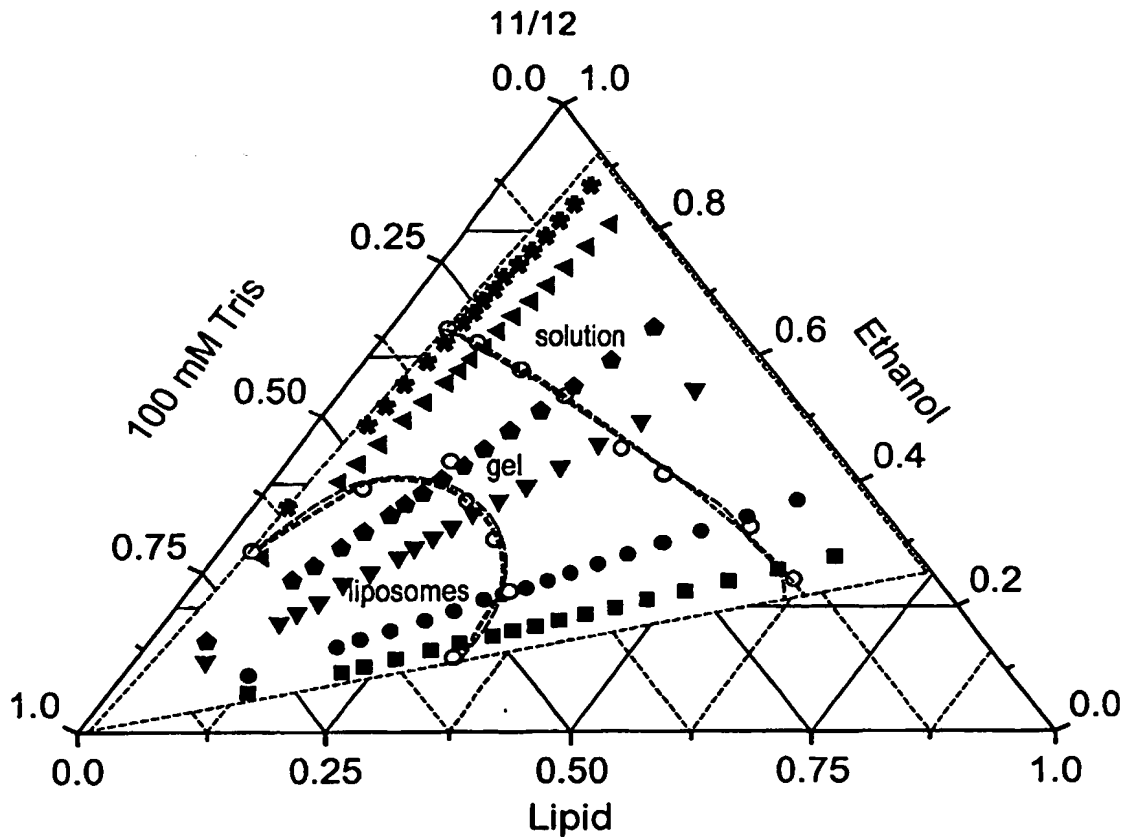


FIG. 16

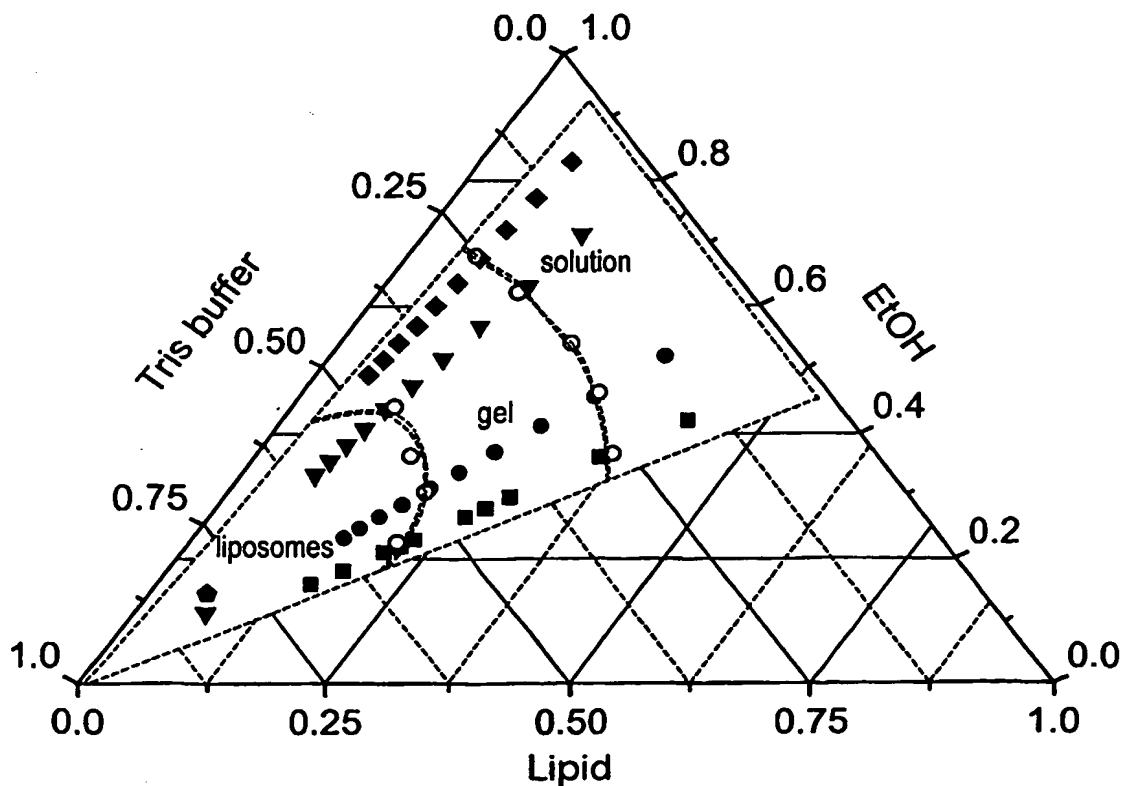


FIG. 17

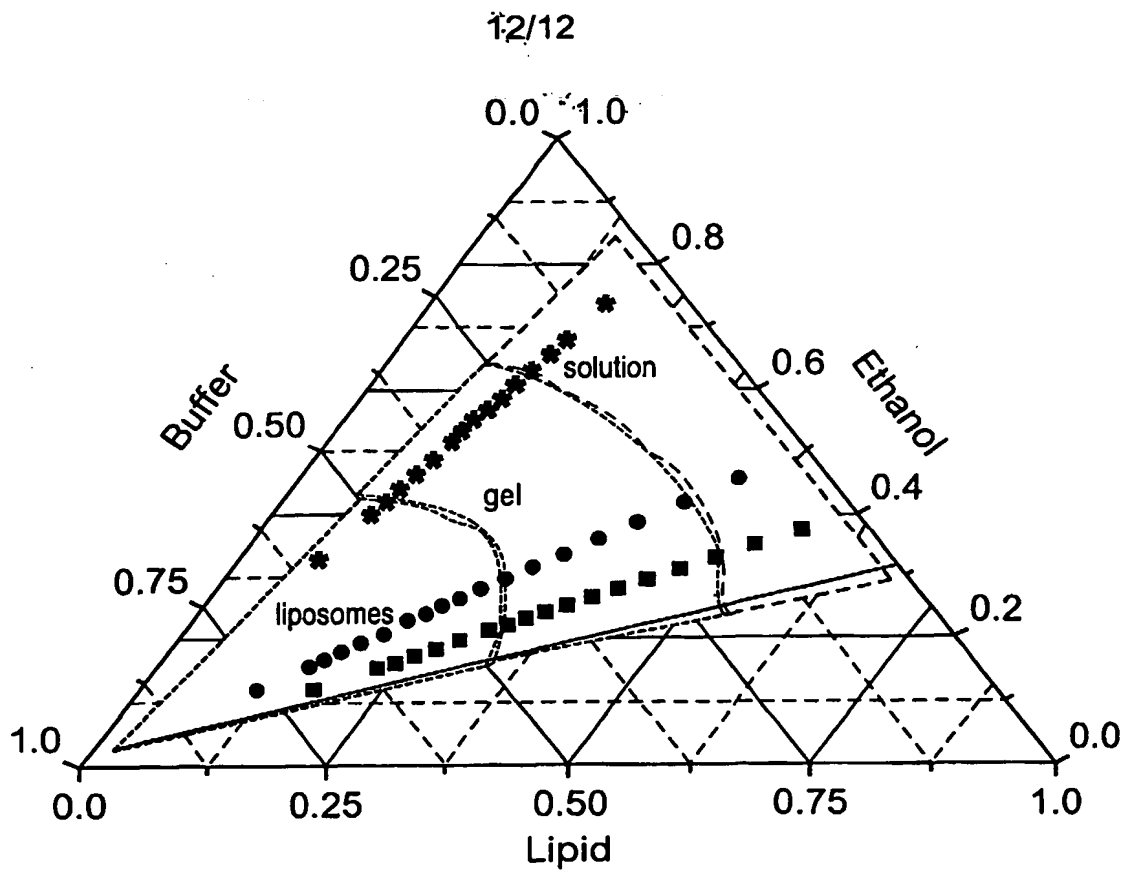


FIG. 18